



UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH

UPC
Universitat
Polítècnica de Catalunya
BarcelonaTech

Academic year 2024-2025



UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH

We are **UPC**

The **Universitat Politècnica de Catalunya · BarcelonaTech**
is a public institution of **Higher Education and Research**, specialised in the
areas of **Architecture, Engineering, Science and Technology**

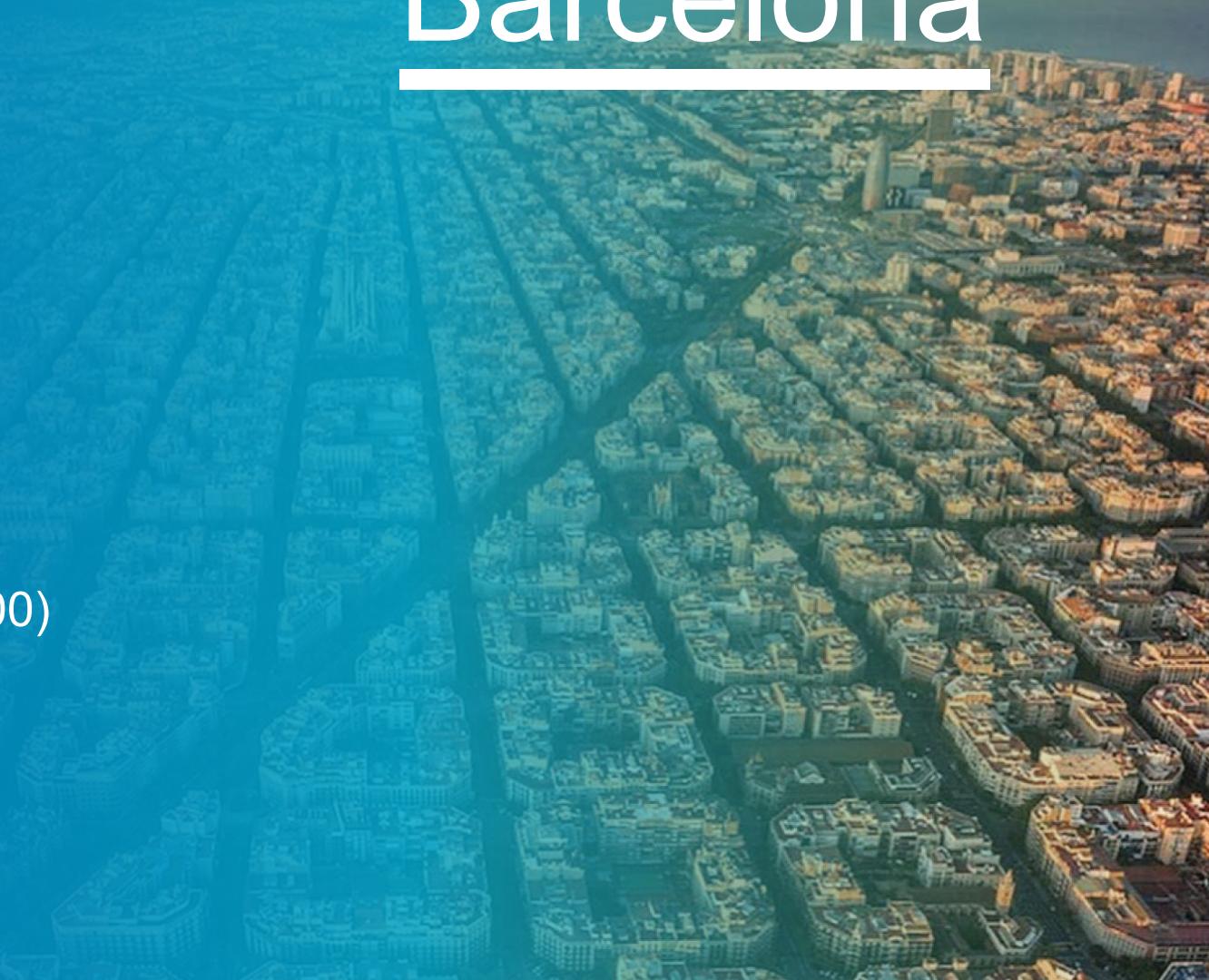
We are a leading technological university at the south of Europe

- 
- Manresa
 - Terrassa
 - Sant Cugat
 - Castelldefels
 - Vilanova i la Geltrú
 - Sant Adrià del Besos
 - Barcelona**



A hub for Education, Research, Innovation and Internationalisation.

Barcelona



- ... The Southern gateway to Europe
- ... Mediterranean Capital
- ... Bridge to the Maghreb
- ... Platform for links to Latin America

1 636 732	Inhabitants
3 719 096	Inh. Metropolitan Area
112,4	GDP per capita (Index EU27=100)
66 436 346	kTn harbour total transit (2021)
52 657 600	Airport passengers (2019)
471 885	Companies (BCN region)
8 908	Foreign companies (Catalonia)





EEABB



EEBE



EETAC



EPSEB



EPSEM



EPSEVG



ESEIAAT



ETSETB



ETSAV



ETSECCPB



ETSEIB



ETSETB



FIR



FME



FNR



FOOT



CFIS



CITM

18
Schools

30
Departments

141
Research groups



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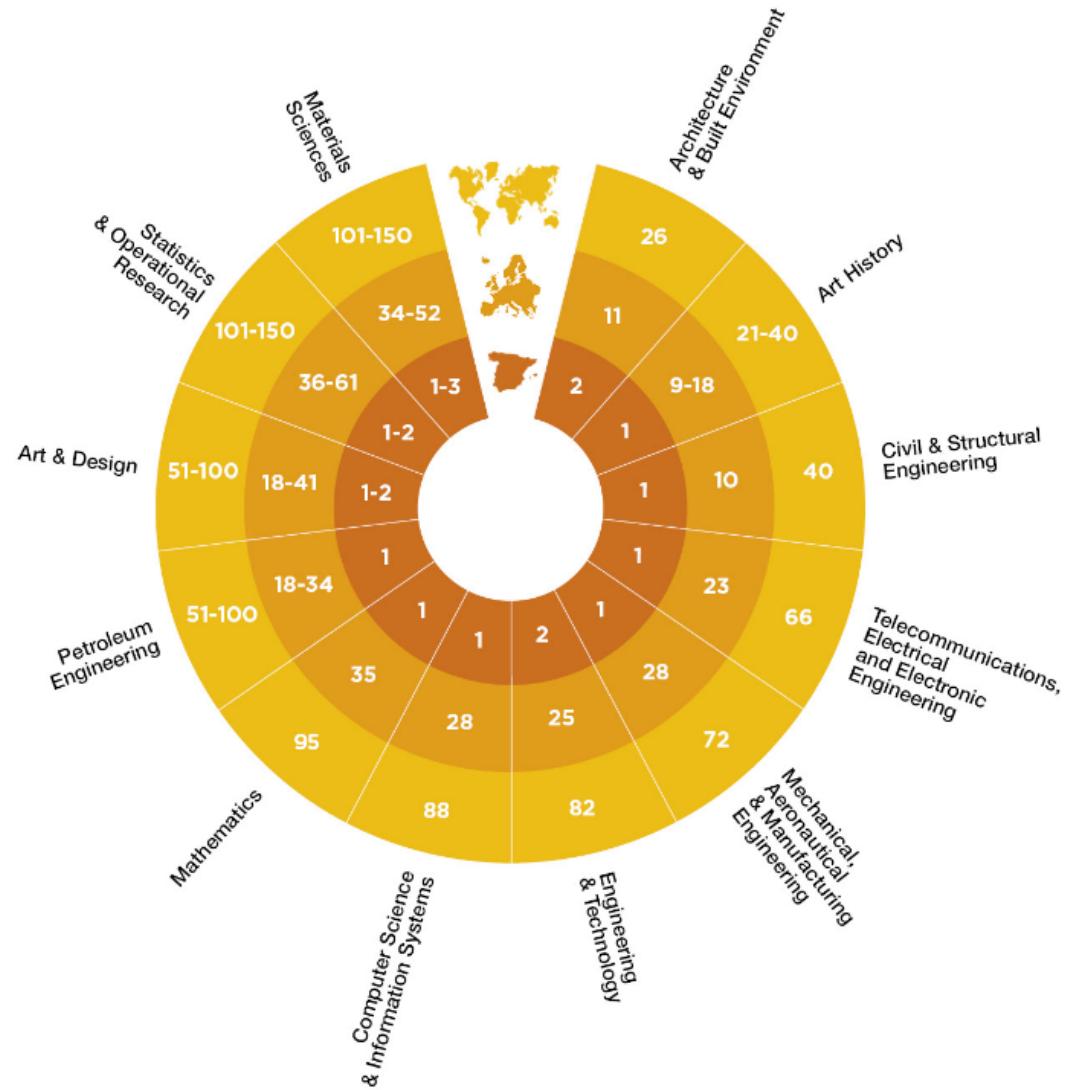
Fields

- Architecture and Urban Planning.
- Aerospace Engineering
- Agricultural and Biosystems Engineering
- Civil, Environmental and Geological Engineering
- Computer Science
- Engineering for Industry: Energy, Biomedical, Chemical, Electrical, Materials and Mechanical, Naval, Maritime and Nautical Engineering, Telecommunications and Electronic Systems Engineering
- Applied Sciences: Mathematics, Statistics, Physics, Optics and Photonics

Reputation



QS World University
Rankings by Subject, 2024

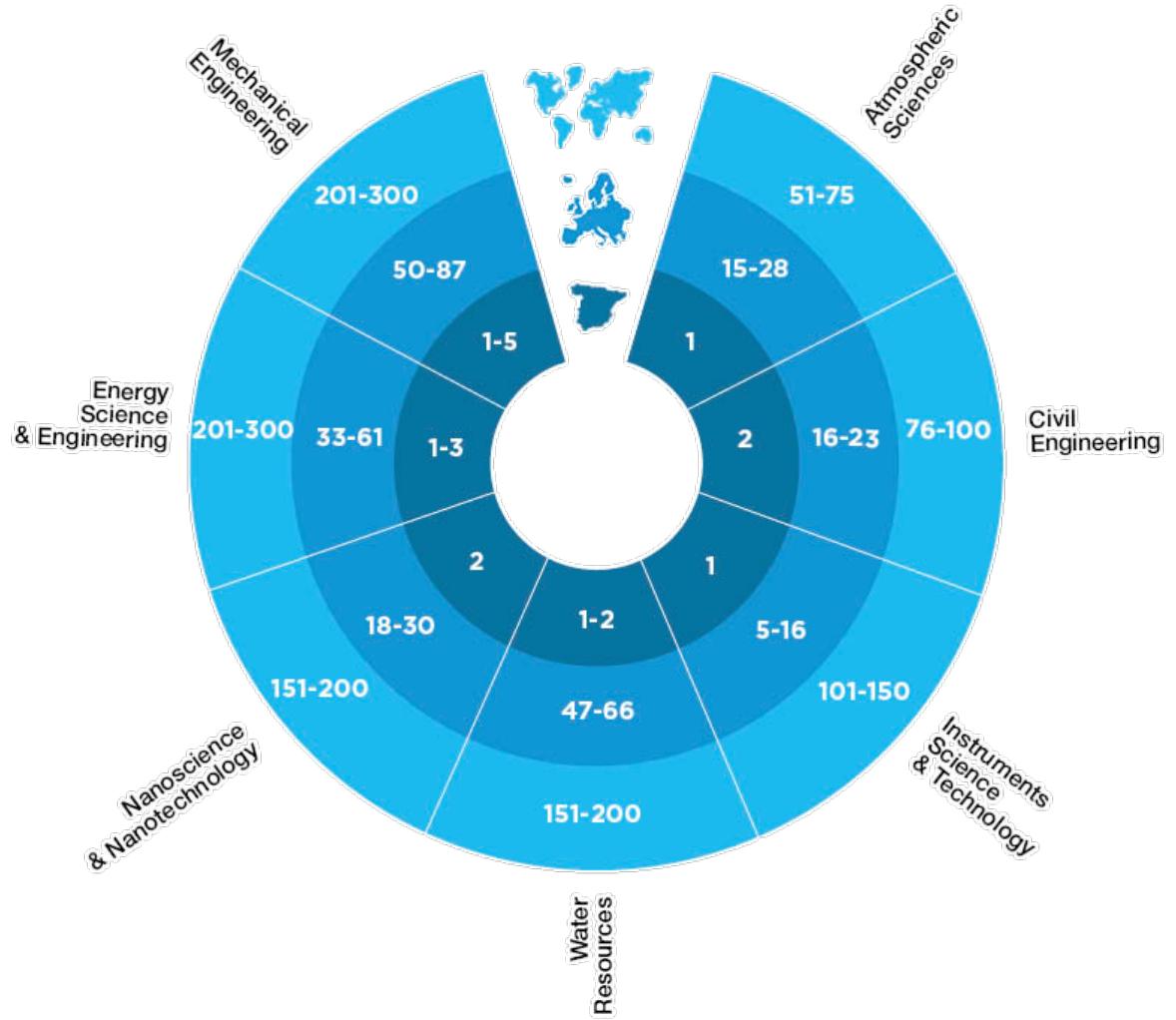


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Reputation



Shanghai Global Ranking
of Academic Subjects, 2023





371.9 M€

UPC budget
(2024)

80.9 M€

Projects income
R+D+I (2022)



A university
committed to
its environment
and society





54 development cooperation
projects in 25 countries



Centre de Cooperació
per al Desenvolupament



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A university aligned with the Sustainable Development Goals (SDG)

UPC, world's 'top 50' in the Climate Action SDG 13, according to the 2023 edition of the Times Higher Education Impact Rankings.



The collage consists of nine panels, each representing a different SDG:

- Sustainable cities. The TO house** (SDG 11): Five ETSAV students lived in a sustainable house for five months to study its viability as a real habitat and analyse the pros and cons of living in low environmental impact housing that they themselves have devised.
- Autonomous vehicles for a healthier city** (SDG 9): The Autonomous Delivery Device (ADD) automates last-minute logistics and helps improve traffic and air quality. It was developed by CARNET, the Institute of Robotics and Industrial Informatics (IRI) and the University's industrial partners.
- Energy possibilities of green hydrogen** (SDG 7): The Specific Centre for Hydrogen Research of the UPC (CER-H2) works to make this green energy a sustainable solution for the energy transition.
- Climate action. Saving the Amazon** (SDG 13): On the Vilanova i la Geltrú Campus, the Laboratory of Applied Bioacoustics (LAB) and scientists from Brazil and Austria are working to install the first sensors for real-time monitoring of biodiversity in the Amazon. The aim is to combat the extinction of species in the rainforest.
- For responsible consumption** (SDG 12): The UPC-Mercabarna Chair works from the EEABB to prevent and reduce food waste in retail and wholesale food distribution.
- The fight against COVID** (SDG 3): Faced with the COVID-19 health emergency, several research groups and centres, such as BIOCOM-SC, are working on scientific projects to combat the spread of the virus.
- For real equality of opportunity** (SDG 10): Aquí STEAM UPC brings women's talent closer to technology and engineering studies, breaks stereotypes and gender roles and makes new female models visible. UPC researchers are presented to girls and boys as role models.
- Committed to a better world** (SDG 1): From the Centre for Development Cooperation (CCD), the community contributes to the global and local fight against poverty and trains future professionals to actively engage in building a fairer, more sustainable world.



UPC Community



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30 437
undergraduate and
master students

2 104
PhD students

30 %
of women in the new
intake of students



A photograph showing a man and a woman in white lab coats working on a large, cylindrical metal component in a laboratory. The woman is leaning over the equipment, while the man stands behind her, observing. They appear to be performing some kind of assembly or maintenance work.

3 629

teaching
and research staff

1 989

technical,
management and
administration staff





Training the professionals of the future



UNIVERSITAT POLITÈCNICA
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67 bachelor's
degrees

91 master's
degrees

45 PhD
programmes





240 Life-long learning
programmes



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A photograph showing five students in white lab coats working in a laboratory. In the foreground, two students are focused on a task on a workbench. Behind them, three other students are engaged in their own work. The workbench is cluttered with various laboratory equipment, including a multimeter, a calculator, and several containers labeled with chemical formulas like H₂SO₄(aq) + Pb(s).

88%
of graduates work
in less than 6
months



**Internationalisation,
a dimension that
permeates all
activities**



UPC abroad

- Education: mobility, double degrees, strategic alliances
- Research and innovation projects
- Development Cooperation



Working in networks

The UPC in international networks

CASA
(Consortium for Advanced Studies Abroad)

TELESCOPI
(Red de Observatorios de Buenas Prácticas de Dirección y Gestión Universitaria en Latinoamérica y Europa)

RedEmprendia
(Red de universidades iberoamericanas emprendedoras)

CINDA
(Centro Interuniversitario de Desarrollo)

MAGALHAES
(Red de universidades europeas y latinoamericanas)

Cluster
(Consortium Linking Universities of Science and Technology for Education and Research)

EUA
(European University Association)

TIME
(Top Industrial Managers for Europe)

UNITE!
(University Network for Innovation, Technology and Engineering)

SINO-SPANISH CAMPUS
A campus at Tongji University (China) composed of the UPC, the Universidad Politécnica de Madrid, the Tecnológico de Monterrey and the Universidad de Sevilla.

HERITAGE Network

UNITECH
(Network of technological universities and European companies)

CESAER
(Conference of European Schools for Advanced Engineering Education and Research)



European Institute of
Innovation & Technology

The EIT is a body of the European Union



Knowledge and Innovation Community (KIC) supported by the
European Institute of Innovation and Technology (EIT)



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A photograph of five young adults (three females and two males) smiling and posing together outdoors. They are dressed casually, with one female in a striped shirt, another in a dark top, and a male in a patterned sweater. The background shows a modern building and some greenery.

1 555

Student exchange agreements
with

695

Higher Education Institutions
from **57** different countries

54

International Double Degree
programmes with 30 universities





2 940

students in international
exchange programmes

28%

of master's students are
international, 80% of them
are from outside the EU

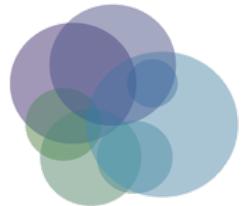
54%

of PhD students are
international, 80% of them are
from outside the EU



**Unite!,
the creation of the
future European
university**

unite!



University Network for Innovation,
Technology and Engineering

- A model of European University of innovation, technology and engineering.
- A strategic alliance of universities.
- An inclusive community linked to the territory and its stakeholders.



280,000

students at Unite! universities (2021)



77,300
graduates of Unite! universities per year (2020)



31,000
journal and conference papers per year (Web of Science, 2020)



223
ERC grants at Unite! universities (2007-2021)



2,630
PhD graduates of Unite! universities per year (2020)



799
Startups founded in the last 5 years



U LISBOA | UNIVERSIDADE DE LISBOA



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Worcester University
of Science and Technology



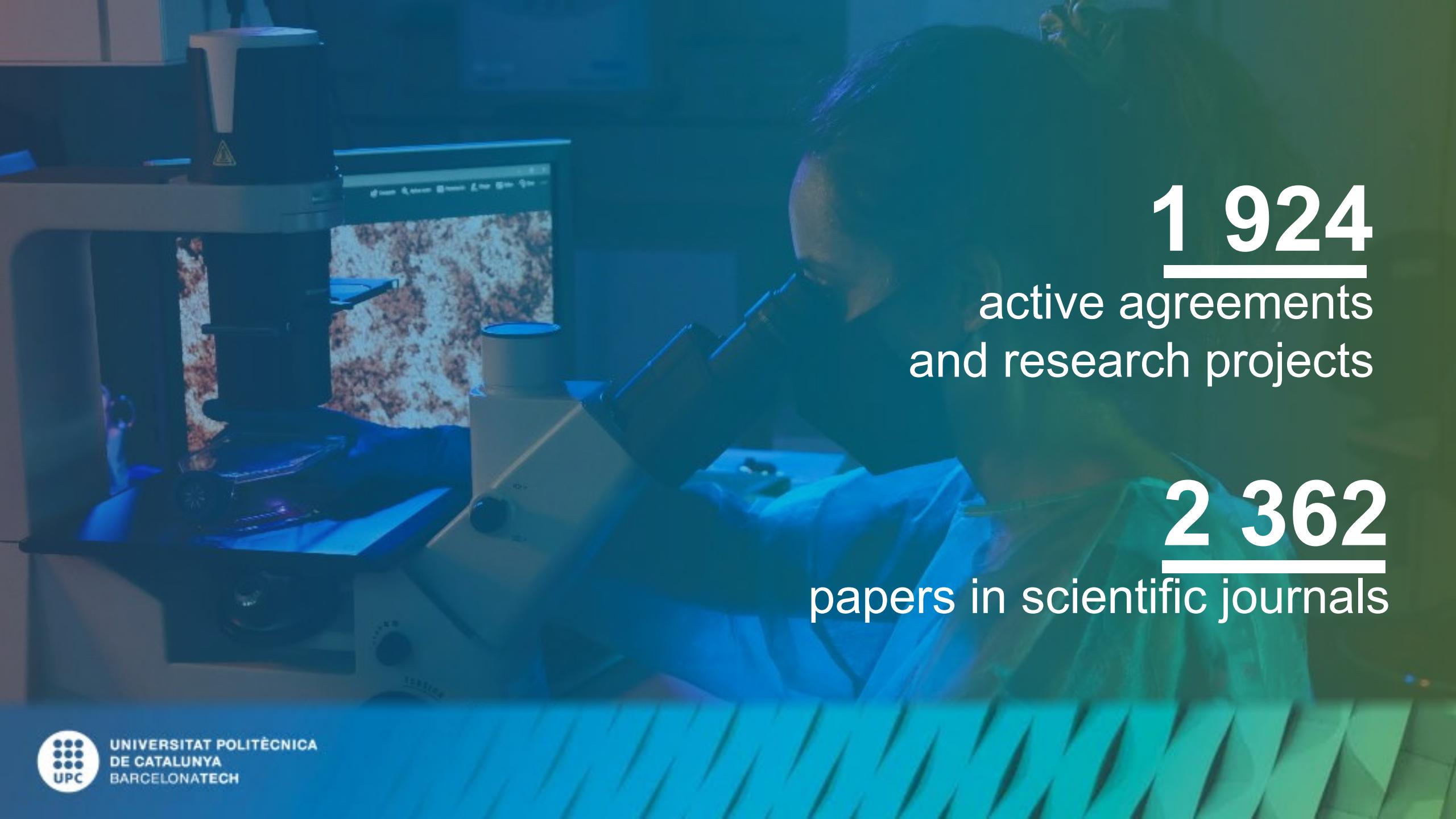
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Research to innovate



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1 924
active agreements
and research projects

2 362
papers in scientific journals





The UPC, first
State University
in projects
funded through the Horizon
2020 programme



Offering answers to companies

R+D+i
Innovation hubs
Talent (internships in companies)
UPC innovation ecosystem
Industrial Doctorates

THE UPC, A UNICORN INCUBATOR

With nine entrepreneurs and six start-ups valued at over one billion euros or that may be so valued in the next two years, the UPC is one of the top universities at which founders of unicorn companies have trained.

GENERATING 0.3% OF CATALAN GDP

The UPC contributed to generating 0.3% of Catalonia's GDP in 2019. For every 100 euros of public funding it received, the UPC returned 601.5 euros to society.

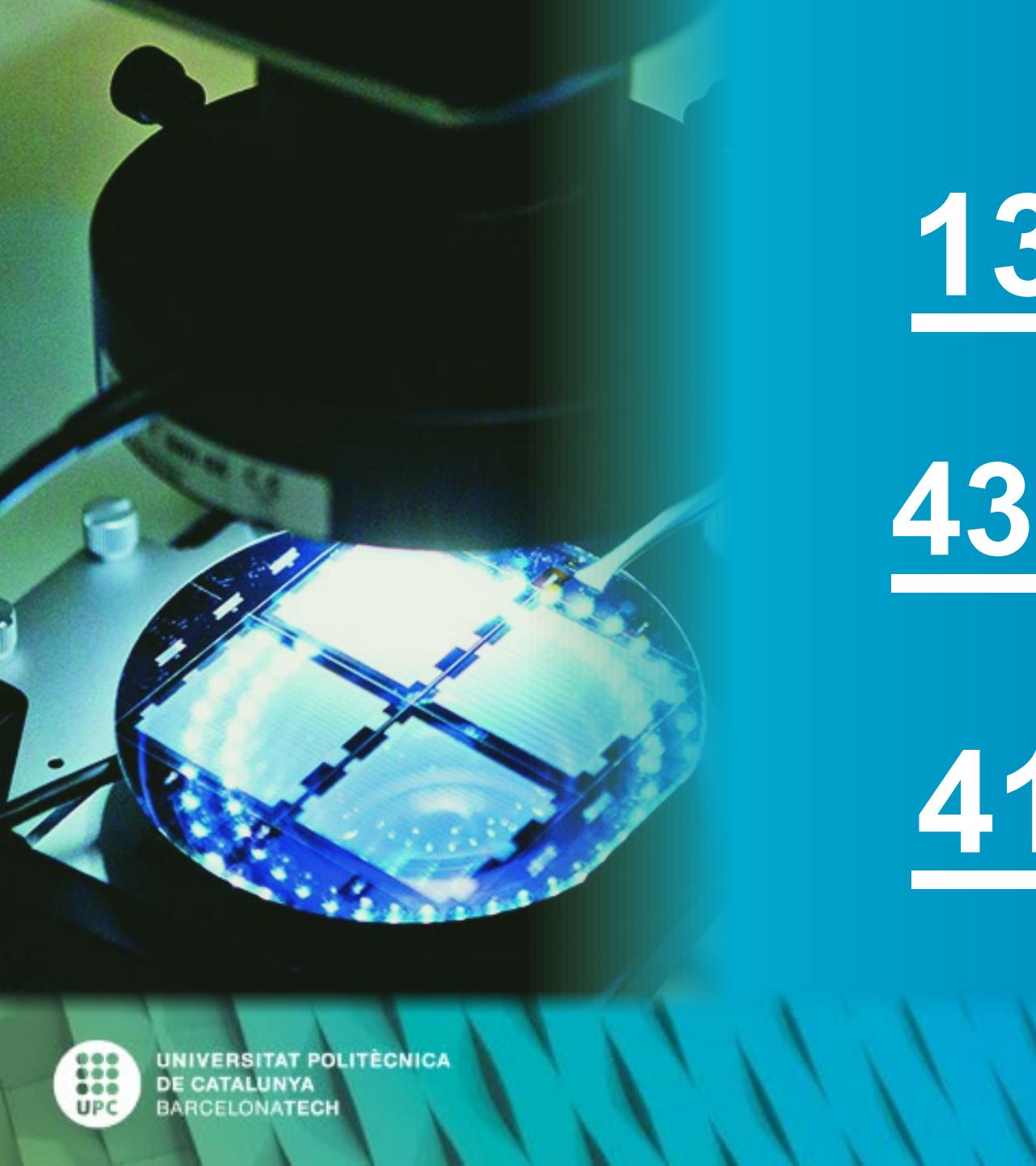
In terms of contribution to the labour market that year, the University directly or indirectly contributed to creating or maintaining 10,371 full-time equivalent jobs.

(Source: *Impacte econòmic i retorn social de la UPC. Any 2019*)



2 834
companies
and entities
with collaboration
agreements





13

patents registered last year

432

patents and licences in the last 10 years

41

technology-based companies
investee





103

industrial doctorate
theses

28.7% of industrial
doctorates in Catalonia
since 2007 have been
developed at the UPC



UPC

Universitat

Politécnica de Catalunya

BarcelonaTech

UPC,
the university of
Engineering,
Architecture,
Sciences and
Technology